Notice of Allowability	Application No.		
	09/809,038		
	Examiner	Art Unit	
	Wai-Sing Louie	2814	And
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate community RIGHTS. This application is s	n this application. If not included unication will be mailed in due c	i ourse. <b>THIS</b>
1. This communication is responsive to <u>8/18/2004</u> .			
2. The allowed claim(s) is/are 64,66 and 71.		·	
3. $\boxtimes$ The drawings filed on <u>16 March 2001</u> are accepted by th	e Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority <ul> <li>a)  All</li> <li>b)  Some*</li> <li>c)  None of the:</li> </ul> </li> <li>1.  Certified copies of the priority documents hat</li> <li>2.  Certified copies of the priority documents hat</li> <li>3.  Copies of the certified copies of the priority of the priority of the priority of the priority of the certified copies of the priority of</li></ul>	ve been received. ve been received in Applicatio documents have been received	n Nod in this national stage application	
noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.  A SUBSTITUTE OATH OR DECLARATION must be sub	IMENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which g			TICE OF
6. $\square$ CORRECTED DRAWINGS ( as "replacement sheets") m	ust be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached			
1)  hereto or 2)  to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ack) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN			ote the
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 10/11/2001)</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	) 6. ☐ Interview Si Paper No./ 3/08), 7. ☐ Examiner's	formal Patent Application (PTO- ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allow	- ′
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## **DETAILED ACTION**

The response after final rejection has overcome the final rejection and the finality of the previous office action is withdrawn. Claims 64, 66, and 71 are allowed.

## Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

The claimed invention is a nitride semiconductor light-emitting device comprising:

- An n-type layer comprising an n-type GaN or and n-type nitride semiconductor containing indium and gallium;
- A first p-type clad layer comprising a p-type InGaN containing indium and gallium;
- An active layer, provided between the n-type and the first p-type clad layers, having a multi-quantum well structure having a well layer comprising a nitride semiconductor represented by In<sub>x</sub>Ga<sub>1-x</sub>N, 0<x<1;
- A second p-type clad layer made of a p-type AIGaN containing Al and Ga
   provided over said first p-type clad layer, and
- A p-type contact layer formed of a p-type GaN provided over the second p-type clad layer.

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The prior art of record does not disclose or suggest either in singly or in combination the following limitations and other elements in the claims:

Reference Edmond et al. (US 5,592,501) do not disclose a first p-type clad layer comprising a p-type InGaN containing indium and gallium and a second p-type clad layer made of a p-type AIGaN containing Al and Ga provided over said first p-type clad layer.

Reference Mannou et al. (US 5,270,246) do not disclose an active layer having a multiquantum well structure having a well layer comprising a nitride semiconductor represented by  $In_xGa_{1-x}N$ , 0<x<1, and a first p-type clad layer comprising a p-type InGaN containing indium and gallium.

Therefore, the above references do not disclose the claimed invention of present application and claims 64, 66, and 71 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is (571) 272-1709. The examiner can normally be reached on 7:30 AM to 4:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

W<sub>s</sub>1

September 17, 2004.

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